

Comparisons of Job Characteristics

Focus Occupation: **Epidemiologists (19-1041)**

Associated Occupation: **Statisticians (15-2041)**

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| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Statisticians (15-2041)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|----|--|
| Mathematics | 9.2 | 15.7 | 18.7 | > | Current knowledge level is likely sufficient |
| Computers and Electronics | 8.4 | 15.1 | 13.8 | 0 | Current knowledge level may be sufficient |
| Biology | 3.7 | 7.1 | 16.5 | >> | Current knowledge level is likely more than sufficient |
| Medicine and Dentistry | 3.7 | 6.2 | 12.7 | >> | Current knowledge level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Statisticians (15-2041)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|----|--|
| Mathematics | 6.2 | 15.7 | 11.0 | << | Extensive development of skills in this area may be required |
| Critical Thinking | 10.8 | 14.6 | 14.6 | 0 | Current skill level may be sufficient |
| Programming | 2.2 | 10.8 | 1.8 | << | Extensive development of skills in this area may be required |
| Science | 4.5 | 10.6 | 18.2 | >> | Skill level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Statisticians (15-2041)

| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
|--|---------------------------------|--------------------------------|---------------------------|--------------------------------|--|
| Mathematical Reasoning | 6.3 | 16.1 | 11.5 | << | Extensive improvement in abilities may be required |
| Deductive Reasoning | 10.6 | 15.4 | 14.6 | 0 | Current ability level may be sufficient |
| Inductive Reasoning | 10.2 | 14.4 | 15.2 | 0 | Current ability level may be sufficient |
| Written Comprehension | 11.0 | 14.4 | 16.0 | > | Current ability level is likely sufficient |
| Information Ordering | 9.9 | 14.2 | 11.6 | < | Some improvement in abilities may be required |
| Written Expression | 9.8 | 13.9 | 15.0 | 0 | Current ability level may be sufficient |
| Number Facility | 6.3 | 13.0 | 11.0 | < | Some improvement in abilities may be required |
| Category Flexibility | 9.0 | 12.2 | 12.2 | 0 | Current ability level may be sufficient |
| Flexibility of Closure | 7.8 | 10.2 | 10.8 | 0 | Current ability level may be sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Statisticians (15-2041)

| Work Activities | Exclusivity of Activity |
|--|-------------------------|
| Advise governmental or industrial personnel | 28 |
| Analyze scientific research data or investigative findings | 27 |
| Collect scientific or technical data | 30 |
| Collect social or personal information | 70 |
| Collect statistical data | 47 |
| Communicate technical information | 4 |
| Confer with research personnel | 50 |
| Confer with scientists | 54 |
| Develop or maintain databases | 30 |
| Develop policies, procedures, methods, or standards | 21 |
| Develop tables depicting data | 33 |
| Explain complex mathematical information | 30 |
| Make presentations | 13 |
| Perform statistical analysis | 71 |
| Plan scientific research or investigative studies | 48 |
| Plan surveys of specified group or area | 80 |
| Prepare reports | 8 |
| Prepare technical reports or related documentation | 22 |

| | |
|---|----|
| Provide expert testimony on research results | 66 |
| Recommend further study or action based on research data | 60 |
| Use computers to enter, access or retrieve data | 3 |
| Use knowledge of investigation techniques | 16 |
| Use mathematical or statistical methods to identify or analyze problems | 30 |
| Use quantitative research methods | 35 |
| Use relational database software | 26 |
| Use scientific research methodology | 21 |
| Use spreadsheet software | 18 |
| Use word processing or desktop publishing software | 17 |
| Write scholarly or technical research papers | 36 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 94

Focus Occupation: Epidemiologists (19-1041)
Associated Occupation: Statisticians (15-2041)

| Tools and Technologies | Exclusivity |
|--|-------------|
| Computers | 1 |
| Content authoring and editing software | 1 |
| Data management and query software | 1 |
| Industry specific software | 1 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.